



(Use as many sheets as necessary)

Sheet	I	of	1
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Complete if Known

Application Number	10/795,944
Filing Date	March 8, 2004
First Named Inventor	Jeffrey Held, et al.
Art Unit	1724
Examiner Name	P. Hruskoci
Attorney Docket Number	

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature	P.A. HRUSKOCI	Date Considered	12/13/04
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PTO/SB/C&B (03-03)

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Substitute for form 1449A/B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/795,944
		Filing Date	March 8, 2004
		First Named Inventor	Jeffrey Held
		Art Unit	N/A
		Examiner Name	Not Yet Assigned
Sheet 1 of 2	Attorney Docket Number	30811/40225	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
PA		980,483	01/1911	Welcome	
		3,280,982	10/1986	Barto	
		3,397,140	08/1988	Dea	
		3,670,891	08/1972	Allen	
		3,689,806	10/1972	Gallo	
		3,913,500	10/1975	Paccione et al.	
		3,962,069	08/1978	Inoue et al.	
		4,013,552	03/1977	Kreuter	
		4,043,047	08/1977	Galliker	
		4,101,400	07/1978	Pepping	
		4,193,208	03/1980	Maffei	
		4,308,878	12/1981	Wurtz	
		4,367,132	01/1983	Beil et al.	
		4,561,853	12/1985	Muralidhara et al.	
		4,608,179	08/1986	Deal	
		4,620,493	11/1988	Carlson	
		4,655,932	04/1987	Roslonski	
		4,671,874	08/1987	Fremont et al.	
		4,747,920	05/1988	Muralidhara et al.	
		4,755,305	07/1988	Fremont et al.	
		4,881,498	08/1989	Diaz	
		4,971,705	11/1990	Roslonski	
		5,026,484	06/1991	Juvan	
		5,034,111	07/1991	Kondo et al.	
		5,037,560	08/1991	Gayman	
		5,049,248	09/1991	Muralidhara et al.	
		5,143,626	8/1992	Nugent	
		5,230,809	07/1993	Roslonski	
		5,695,650	12/1997	Held	
		5,848,425	12/1998	Whiteman	
		5,893,979	04/1999	Held	
		6,030,538	02/2000	Held	
		6,395,176	05/2002	Held et al.	
		6,491,820	12/2002	Held et al.	
		6,540,919	04/2003	Held et al.	

Examiner Signature	P.A. HRUSKOCI	Date Considered	9/28/04
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PTO/SB/02a/b (08-03)

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Substitute for form 1445A/B, PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/795,944	
			Filing Date	March 8, 2004	
			First Named Inventor	Jeffrey Held	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Attorney Docket Number	30811/40225

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ²	Number ³ Kind Code ⁴ (if known)			
PAG		JP	53-91468	11/1978		
		JP	60-25597	08/1985		
		WO	99/24372	05-20-1999	Held, J.	
		WO	02/04358	01-17-2001	Held et al.	

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NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issues number(s), publisher, city and/or country where published.				T ²
PAG	C1	Gaudy, et al., "The Microbiology of Waste Disposal", <i>The Microbiology of Waste Waters</i> , W.B. Saunders & Comp., chapter 36, 1971.				
	C2	Curtiss, "Bacterial Cell Wall," <i>Microbiology</i> , W.W. Norton & Co., 1976.				
	C3	Morrissey et al., <i>Sterilization Methods Used in Microbiology, Sterilization Technology</i> , 1993.				
	C4	Gupta, R.P., "Pulsed High Electric Field Sterilization".				
	C5	"Controlling Fluid Flow with Porous Metals", <i>Machine Design</i> , January 8, 1987.				
	C6	Newmet-Thermet Krebsco Company, "Porous Metal Products" products brochure.				
	C7	Graham Mfg. Co., "Helflow Heat Exchanger".				
	C8	"Merlen OPTT Series Pump/Stuffer" product brochure.				
PAG	C9	Chauhan, S., "Feasibility of Biosludge Dewatering Using Pulsed Electric Fields," <i>Battelle Final Report</i> , 1-24 (1998).				

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	P.A. Hruskoci	Date Considered	9/28/04
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Form PTO-1449 (Modified)

Atty. Docket No.

30811/40225

Serial No.

10/795,944

INFORMATION DISCLOSURE STATEMENT

Applicant(s)

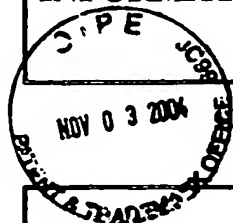
Held et al.

Filing Date

March 8, 2004

Art Unit

1724



U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Issue or Publication Date	Name	Class	Subclass	Filing Date (If Appropriate)
PAA	3,265,605	8/9/66	Doevenspeck	204	165	
	4,592,291	6/3/86	Sullivan III	110	346	
	4,631,133	12/23/86	Axelrod	210	739	
	4,917,785	4/17/90	Juvan	204	164	
	4,957,606	9/18/90	Juvan	204	164	
	5,037,524	8/6/91	Juvan	204	660	
	5,091,079	2/25/92	Gayman	210	175	
	5,464,513	11/7/95	Goriachev	204	164	
	5,507,927	4/16/96	Emery	204	157.43	
	5,522,553	6/4/96	LeClair et al.	241	21	
	5,630,915	5/20/97	Greene et al.	204	164	
	5,801,489	9/1/98	Chism Jr., et al.	315	111.21	
PAA	6,402,065	6/11/02	Higgins	241	21	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Publication Date	Country	Translation	
				Yes	No
PAA	DE 4 101 076	8/8/91	Germany	Abst.	
PAA	JP 1-210100	8/23/89	Japan	X	
PAA	JP 1-307500	12/12/89	Japan	Abst.	
PAA	WO98/58740	12/30/98	WIPO	N/A	

EXAMINER:

P.A. HEUSKOCI

DATE CONSIDERED:

12/7/04

Form PTO-1449 (Modified) INFORMATION DISCLOSURE STATEMENT	Atty. Docket No. 30811/40225	Serial No. 10/795,944
	Applicant(s) Held et al.	
	Filing Date March 8, 2004	Art Unit 1724

OTHER DOCUMENTS	
<i>PAHA</i>	International Search Report (counterpart to priority application).
<i>PAHA</i>	Bradley et al., <i>Bipolar Electrodeposition on Nanotubes</i> (USA).
<i>PAHA</i>	Castro et al., <i>Microbial Inactivation of Foods by Pulsed Electric Fields</i> , J. Food Proc. Pres. 17:47-73 (1993) (USA).
<i>PAHA</i>	<i>Consideration of Sludge Dewatering Methods</i> in The Microbiology of Waste Waters (W.B. Sauders & Co.) pp.6-8, 17 (1971) (USA).
<i>PAHA</i>	Dossenbach et al., <i>Pulse Current Electrodeposition of Palladium Silver Alloys</i> in AESF (American Electroplaters and Surface Finishers Society) Third International Pulse Plating Symposium H1-H3 (1986) (USA).
<i>PAHA</i>	El-Shazly et al., <i>High-Speed Metal Deposition Using Interrupted Current Techniques</i> in AESF (American Electroplaters and Surface Finishers Society) Third International Pulse Plating Symposium C1-C7, C9-C11 (1986) (USA).
<i>PAHA</i>	<i>Method Improves Sludge Digestion</i> , Waste Treatment Tech. News v.12 i8 (1996) (USA).
<i>PAHA</i>	Gutierrez, <i>Recent Advances in Pulse Plating Power Supply Technology & Plating Capability</i> , AESF 5th Pulse Plating Symposium 1-23 (June 2000) (USA).
<i>PAHA</i>	Kady International materials – 4 pages (circa 1999) (USA).
<i>PAHA</i>	Kady Internation materials – 2 pages (circa 1999) (USA).
<i>PAHA</i>	Koelzer, <i>Back to the Basics: Pulse Math</i> , Plating & Surface Finishing (Dec. 2000) (USA).
<i>PAHA</i>	Mertens et al., <i>Developments of Nonthermal Processes for Food Preservation</i> , Food Tech. 46(5):124, 126-133 (May 1992) (USA).
<i>PAHA</i>	Milad et al., <i>PPR Plating for HDI</i> , PC Fab, 40, 42, 44, 46 (2000) (USA).
<i>PAHA</i>	Peshkovsky et al., <i>Dipolar Interactions in Molecules Aligned by Strong AC Electric Fields</i> , J. Magnetic Resonance, 147:104-109 (2000) (USA).

EXAMINER: <i>P.A. HRUSKOCI</i>	DATE CONSIDERED: <i>12/7/04</i>
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Form PTO-1449 (Modified)	Atty. Docket No. 30811/40225	Serial No. 10/795,944
INFORMATION DISCLOSURE STATEMENT	Applicant(s) Held et al.	
	Filing Date March 8, 2004	Art Unit 1724

PAA	Puippe, <i>Influence of Charge and Discharge of Electrical Double Layer in Pulse Plating in Theory and Practice of Pulse Plating</i> (Americal Electroplaters and Surface Finishers Society), ch. 4, pp.41-43 (1986) (USA).
PAA	Puippe, <i>Qualitative Approach to Pulse Plating in Theory and Practice of Pulse Plating</i> (Americal Electroplaters and Surface Finishers Society), ch. 1, pp.1-3 (1986) (USA).
PAA	U.S. Food and Drug Administration, <i>Kinetics of Microbial Inactivation for Alternative Food Processing Technologies – Pulsed Electric Fields</i> (June 2000) (USA).
PAA	Wadehra et al, <i>Reduced Wasting from Activated Sludge Processes Using a Mechanical Cell Lysis Technology</i> in WEFTEC 1999, (1999) (USA).
PAA	Zhang, Q. H., Monsalve-Gonzalez, A., Barbosa-Cánovas, G. V. and Swanson, B. G., <i>Inactivation of E. coli and S. cerevisiae by pulsed electric fields under controlled temperature conditions</i> , Transactions of the ASAE. 37(2):581-587 (1994) (USA).
PAA	Zhang, Q. H., Chang, F.-J. and Barbosa-Cánovas, G. V., <i>Inactivation of microorganisms in a semisolid model food using high voltage pulsed electric fields</i> , Lebensm Wiss Technol. 27(6):538-543 (1994) (believed to be Germany).
PAA	Zhang, Q. H., Qin, B.-L., Barbosa-Cánovas, G. V. and Swanson, B. G., <i>Inactivation of E. coli for food pasteurization by high-strength pulsed electric fields</i> , J. Food Process Preserv. 19(2):103-118 (1995) (USA).
PAA	Zhang, Q. H., Barbosa-Cánovas, G. V. and Swanson, B. G., <i>Engineering aspects of pulsed electric field pasteurization</i> , J. Food Eng. 25(2):261-281 (1995) (Great Britain).
PAA	Zhang, Q. H., Qiu, X. and Sharma, S. K., <i>Recent development in pulsed electric field processing</i> . National Food Processors Association - New Technologies Yearbook. 31-46 (1997) (believed to be USA).

EXAMINER: P.A. HEUSKOCI	DATE CONSIDERED: 12/7/04
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SHEET 1 of 1

Form PTO-1449 (Modified)	Atty. Docket No.	Serial No.
	30811/40225	10/795,944
	Applicant(s)	
	Held et al.	
INFORMATION DISCLOSURE STATEMENT	Filing Date	Art Unit
	March 8, 2004	1724

U.S. PATENT DOCUMENTS						
Examiner Initials	Document Number	Issue or Publication Date	Name	Class	Subclass	Filing Date (If Appropriate)
PAA	5,690,978	11/25/1997	Yin et al.			9/30/1996

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Document Number	Publication Date	Country	Translation	
				Yes	No

OTHER DOCUMENTS	
PAA	El-Shazly et al., <i>High-Speed Metal Deposition Using Interrupted Current Techniques</i> in AESF (American Electroplaters and Surface Finishers Society) Third International Pulse Plating Symposium C8 (1986) (USA).
PAA	Dentel et al., <i>Overview of Electrical Arc Conditioning of Biosolids</i> in Water Environment Research Foundation: Workshop #116 Recent Advances in Biosolids Research: Conditioning, Dewatering, and Beneficial Use 86-98 (1999) (USA)

EXAMINER: P.A. HRUSKOCI	DATE CONSIDERED: 12/7/04
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